Work Order ID 61665



Page 1

Tuesday, August 31, 2010 10:43:37 AM Item ID: D3391-023 Accept Setup Start Revision ID: Stop Item Name: Mid Tube Assembly Start Qty: 1.00 **Start Date:** 8/31/2010 **Cust Item ID:** Required Date: 9/7/2010 Req'd Qty: 1.00 **Customer:** Reference: Start Run Date: 10-8 Process Plan: Approvals: Tooling: Date: Stop Date: SPC (Y/N): QC: Date: Sequence ID/ Operation Set Up/ Tool ID Reject Accept Description Work Center ID **Run Hours Qty** Number Stamp **Qty Draw Nbr Revision Nbr** D3391 Rev H 100 0.00 Skidtubes Skidtubes Skidtubes 1-Cut tube to finish length as per Dwg D3391 2-Identify as D3391-023 3-Drill pilot holes using DT8796 (Do not drill "B" holes) and drill only 1 fwd saddle hole on one side only as per Dwg D3391 4-Open saddles and GHW holes to Ø0.375" exept for fwd saddle hole of detail 5-Remove .030" from Fwd indexing Ridge as per Dwg D3391 6-Remôve indexing ridge on Fwd & Art end of skidtube as per Dwg D3391 7-Deburr 8-Drill #30 pilot holes using wearplate Jig DT8217 Identify Ø0.250" holes with paint marker, 9-Open wearplate holes of D3391-023 assembly detail section G-G to Ø0.250" (14 holes) as per Dwg D3391 and 2 holes in section Detail "J", do not open

wearplate holes of section "J"

10-Open wearplate holes of D3391-023 assembly detail section H-H to

(20 holes) as per Dwg D3391

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W/O:			WORK ORDER	CHANGES			17
DATE	STEP		PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr. Approval QC Inspector
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Part No	:	PAR	#: Fault Category:	NCR: Ye	es No DQ	A:	Date:
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Page 2

Tuesday, Aug	ust 31, 2010	10:43:37 AM
Item ID:	.D3391-02	23

Révision ID:

Item Name: Mid Tube Assembly

Start Date:

8/31/2010

Start Qty: 1.00

Required Date: 9/7/2010 Req'd Qty: 1.00



Accept



Setup Start



Stop

Reference:

Process Rlan: Approvals:

Date: _____

Tooling: Date:

SPC (Y/N):

Date:

Date:

Run

Start



Stop

Sequence ID/ Work Center ID Operation Description

Set Up/ Run Hours Tool ID

Cust Item ID:

Customer:

Tool # Plan Code

Accept Qty

Reject Qty

Reject Insp. Number Stamp

11-Open .375" holes to .438" ***do not open fwd saddle holes***

12-Locate D3391-021 in D3391-023 at 9.00" (see view z-z)

13- Transfer drill one fwd saddle hole only to .188" dia, transfer drill all remaining fwd saddle holes using DT 8149 locating from previusly drill .188" dia hole, using t-pins and clicos to ensure perfect allingment, open up previusly tranfer drilled pilot holes in D3391-023/-021 to 0.438" dia. in D3391-021

14- Transfer drill 2 wearplate holes into D3391-021 using DT8217, locating from two previusly drilled holes, drill remaining wearplate holes into D3391-021.

15- Locating from two fwd wearplate holes drilol remaining 6 wearplte holes in D3391-021 using DT8937

16- Open 2 fwd wearplate holes in D3391-023 to .250" dia.

17- counterbore two aft wearplate holes in D3391-021 as per dwg

18- Open 12 wearplate holes in D3391-021 to 0.297" dia.

19-Deburr and blow out all chips from inside tube

BE 10/12/01



W/O:				WORK (ORDER CHANG	ES			<u>.</u>	· · · · · · · · · · · · · · · · · · ·
DATE	STEP		PROCEDURE CHANGE			Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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NCR:			WORK ORD	ER NON-CONFORMANC	E (NCR)			
		Description of NC		Corrective Action Section B		Verification	Anneoval	Annroyal
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector
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Work Order ID 61665

Tuesday, August 31, 2010 10:43:37 AM



Page 3

Item ID:

D3391-023

Accept

Setup Start

Stop



Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

8/31/2010

Start Qty: 1.00

Required Date: 9/7/2010

Req'd Qty: 1.00



Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Date:____

Tooling:

Date:

Run



Date:

SPC (Y/N):

Set Up/

Date:

Start

Stop

Insp.

Sequence ID/ Work Center ID

110

Operation Description

QC5- Inspect part completeness to step on W/O

Run Hours

Tool ID

Tool # Plan Accept Code Qty

Reject Qty

Reject Number

Stamp

Quality Control

120

HandFinish

Hand Finishing

Chemical Conversion Coat per OSI005 4.1

0.00

10-12-2

Memo

Memo

0.00

130

Quality Control

QC3- Inspect Part Finish

0.00

Memo

0.00

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W/O:			WC	RK ORDER CHANGES	\$			<u> </u>	
DATE	STEP	PRO	CEDURE CHAI	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Work Orde Tuesday, August							_						Page 4
Item ID: Revision ID:	D3391-023	omhlu.		Accept						Setup	Start Stop		
Item Name: Start Date: Required Date: Reference:	Mid Tube Ass 8/31/2010 : 9/7/2010	Start Qty: 1.00 Req'd Qty: 1.00				Cust Item I Customer:	D:				r		
Approvals:		an:	Date:	Tooling: SPC (Y/N):			ate:			Run	Start Stop		
Sequence ID/ Work Center I	D	Operation Description		Set Up/ Run Hours		Tool ID	Tool #	Plan Code	Accept Qty	Rejo Qty		Reject Number	Insp. Stamp
140 Skidtubes		Skidtubes		0.00	-					l	9_	BE	0/12/02
Skidtubes		2-C'sink floa 3- Prepare tu 4-Bond web Adhere for 1	bag holes as per dwg at bag holes as per dwg abe for welding in place as per Dwg D339 2 hours) a exp: -((-69-30)									.*	, ,
150 QC Quality Control		QC5- Inspect part compl	eteness to step on W/O	0.00	2/06	·			_(40				

160

Skidtubes

Skidtubes

Skidtubes

Memo

0.00

0.00

1-Weld crossbolt spacer as per dwg D3391 & QSI 004

2-grind weld flush

A/R M115778

W/O:			WO	RK ORDER CHANG	EFS.			· · · · · · · · · · · · · · · · · · ·	
DATE	STEP	PR	OCEDURE CHAI		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No		PAR #:							
	Reso	olution:						Date: _	
NCR:			WORK ORDE	R NON-CONFORM	ANCE (N	CR)			
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Work Order ID 61665

Tuesday, August 31, 2010 10:43:37 AM



Page 5

Item ID:

D3391-023

Accept



Setup Start



Revision ID:

Start Date:

Item Name: Mid Tube Assembly

8/31/2010

Start Qty: 1.00

Required Date: 9/7/2010

Req'd Qty: 1.00



Cust Item ID: Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run

Start

Stop



Date: ____

SPC (Y/N):

Set Up/

Date:____

Stop



Sequence ID/ **Work Center ID**

170

Operation Description

QC10- Inspect visual per QSI004- ground welds

Run Hours

Tool ID

Tool # Plan Accept Code Qty

Reject **Qty**

Reject Number

Insp. Stamp

Quality Control

180

QC

Quality Control

QC5- Inspect part completeness to step on W/O

185

HandFinish

Hand Finishing

Pressure Wash per QSI005 4.3

Memo

Memo

0.00 => ML 10 (12(10

Memo

0.00

AND REALODINE AS PER PAR09-043

W/O:		WORK ORDER	CHANGES		1
DATE	STEP	PROCEDURE CHANGE	By Date	Qty	Approval Chief Eng / Prod Mgr Approval QC Inspector
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NCR:	1665	W	ORK OR	DER NON-CONFORMANCE	(NCR)	O		
DATE	STEP	Description of NC Section A	Initial Chief Eng	Corrective Action Section B Action Description Chief Eng	Sign &	Verification Section C	Approval Chief Eng	Approval QC Inspector
whomb2	Found on # 1955 but	MiD tune is scrap. Found that the inner Rioge was to ground too much with a time sharp ease onit. It was Found when investigating From complants that the aft		-> scrap and And Destry.	11-2-7	BE 11-2-7	Porus	1102.02
	was on 100.6	ends are cracking inthat hocations. L.C. was not inspecto concerty. LOA	Josiun					
		sharpedy.		•				

Work Order ID 61665

Tuesday, August 31, 2010 10:43:37 AM



Page 6

Item ID:

D3391-023

Accept

Setup Start



Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

Required Date: 9/7/2010

8/31/2010

OC:

Start Qty: 1.00

Req'd Qty: 1.00

Date: _____

Cust Item ID:

Customer:

Reference:

Α	D	nr	OV	al	s:

Process Plan:

Operation

Description

Date:

Tooling:

0.00

0.00

SPC (Y/N):

Set Up/

Run Hours

Date:

Date:

Stop

Stop



Sequence ID/ Work Center ID

190

Powdercoat

Powder Coating

Memo

OVEN TEMPERATURE:

FINISH TIME:

QC

Quality Control

START TIME:

White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum

QC3- Inspect Part Finish

Memo

Tool ID

Tool # Plan Code

Accept Qty

Reject Qty

Run

Number

0.00

0.00

Reject

Insp. Stamp

W/O:			WC	RK ORDER CHANGE	S				
DATE	STEP	PRO	OCEDURE CHA	NGE	Ву	Date	Qty	Approval Chief Eng / ,	Approval OC Inspector
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Part No	:	PAR #:	Fault Cate	gory:	NCR: Yes	No DG	A:	Date:	
	R	esolution:	Disposition	າ:	QA: N/C	Closed:		Date:	
NCR:			WORK ORDI	ER NON-CONFORMAL	NCE (NC	R)			
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DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign Dat	& Sec	tion C	Chief Eng	QC Inspector
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Work Order ID 61665

Tuesday, August 31, 2010 10:43:37 AM



Page 7

Item ID: D3391-023 Accept Setup Start **Revision ID:** Stop Mid Tube Assembly Item Name: **Start Date:** 8/31/2010 Start Oty: 1.00 **Cust Item ID:** Required Date: 9/7/2010 Req'd Qty: 1.00 **Customer:** Reference: Start Run Tooling: Approvals: Process Plan: Date: Date: Stop QC: Date: SPC (Y/N): Date: Sequence ID/ Operation Tool ID Set Up/ Tool # Plan Accept Reject Reject Insp. Work Center ID Description **Run Hours** Code Qty Qty Number Stamp 210 0.00 Skidtubes Skidtubes 0.00 Memo Skidtubes 1- insert D3391-021 into D3391-23 2- insert T-pins into first and third fwd saddle holes 3- ON FIRST SIDE ONLY drill out 2nd and forth fwd saddles holes to 0.500" as per DSI 9364 4- remove T-pins and locate DT9415 from first and third crossbolt hole using Tpins and clekos 5- ON 2ND SIDE ONLY ream out 2nd and forth saddle hole to 0.499". Remove DT9415 6- deburr, re-alodine and blow out chips 7- press fit D3591-1 spacers using DT9416 starting from 0.500" side 220 QC5- Inspect part completeness to step on W/O 0.00

0.00

Memo

Quality Control

W/O:			W	ORK ORDER CHANGI	ES				
DATE	STEP	PRO	ANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC inspector	
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DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign Date	& Sect	ion C	Chief Eng	QC Inspector
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·Work Order ID 61665

Tuesday, August 31, 2010 10:43:37 AM



Page 8

Item ID:

D3391-023

Accept

Setup Start

Stop

Revision ID:

Item Name:

Required Date: 9/7/2010

Mid Tube Assembly

Start Date:

8/31/2010

Start Qty: 1.00

Req'd Qty: 1.00

Date:

Cust Item ID: Customer:

Tool ID

Reference:

Approvals:	
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Process Plan:

Operation

Description

HandFinishing

Date:

Tooling:

SPC (Y/N):

Date:

Tool # Plan

Code

Date:

Run

Accept

Qty

Stop

Reject

Reject

Qty

Start



Sequence ID/ Work Center ID

230

HandFinish Hand Finishing

Memo

Install Inserts as per Dwg

Set Up/ **Run Hours**

0.00

0.00

240

QC

Quality Control

QC5- Inspect part completeness to step on W/O

Memo

0.00

0.00

250

Packaging

Identify as per dwg & Stock Location:

Memo

0.00

0.00

Packaging

Stamp Number

Insp.

W/O:		WORK ORDER CHANGES									
DATE	STEP	PRO	OCEDURE CHANGE			Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
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Part No	:	PAR #:	Fault Ca	tegory:	NCR: Yes	s No DO	QA:	Date: _			
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Work Order ID 61665

Tuesday, August 31, 2010 10:43:37 AM



Page 9

Item ID:

D3391-023

Accept

Setup Start

Stop



Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

8/31/2010

Start Qty: 1.00

Required Date: 9/7/2010

Req'd Qty: 1.00



Date:

Cust Item ID:

Customer:

Reference:

Approvals:

QC:

Process Plan:

Date:

Tooling:

SPC (Y/N):

Date: Date: Run

Start



Stop

Qty

Sequence ID/

Operation **Work Center ID**

Description

QC21- Final Inspection - Work Order Release

Set Up/ **Run Hours**

0.00

Tool ID

Tool # Plan Code

Accept Qty

Reject Reject Number

Insp. Stamp

260

Quality Control

Memo

0.00

MF/70202

W/O:		WORK ORDER CHANGES										
DATE	STEP	PRO	OCEDURE CHA	NGE	₩	Ву	Date Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
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Part No: PAR #:		Fault Cate	gory:	NC	R: Yes N	No DQA:	Date:					
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. Tuesday, August 31, 2010 10:43:41 AM

Work Order ID: 61665

Parent Item:

D3391-023

Parent Item Name: Mid Tube Assembly



Start Date: 8/31/2010

Required Date: 9/7/2010

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP A□05.10.20□New Issue□

IPP B□06.02.10□ECN773 dwg rev.D

 $EC\square$

IPP C 07.03.20 rev F dwg re-format

EC

KJ/EC□

IPP D 07.03.28

EC

EC

IPP E 07.10.31 ecn 1053P

IPP Rev:F ECN 1056 07-11-13 DD IPP Rev:G 08-09-08 new process (ecn 08-510) DD verified by:EC

verified by: EC

IPP Rev:H 08-09-10 revH as per dwg DD verified by:EC

IPP Rev: I 08-11-13 Removed steps per w/o, QC KJ verified by: ec IPP Rev:J add in seq 140 expire date &b# sikaflex DD 10.02.17 verified by:EC

Manufactured

	-	•											
Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D2500-1-100 Skidtube Extrusion		Manufactured	No			100	Each	122.0000	1 	1 B	E 19	12/28	<u> </u>
				Location		Loc	<u>Qty</u>	Loc Code			·	·	
				LG			122						
					37065		35		_				
	153				50251		87		_		_		

100

Each

Each

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D3391-021
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Fwd Tube Assembly
D3389-1
]
Web
D3681-1
1884 1884 1984 1984 1984 1984 1984 1984 1984 1984 1984 1984 1984 1984 1984 1

Spacer

Manufactured	No	140
Manufactured	No	160

No

0.0000		B 61664 BE10/12/01
0.0000		B 62014 BE14/2/02
28.0000	5	\$ 62014 Al Nobel

Location	Loc Oty	Loc Code
LG	28	
56802	14	
57656	14	

Dart Aei	rospace L	ια							•	
W/O:		WORK ORDER CHANGES								
DATE	STEP	PRO	PROCEDURE CHANGE			Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
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NCR:		1	WORK ORDER NON-CON	FORMANCE	(NCR)				
DATE	STEP	Description of NC	Corrective Action		Sign &	Verific	ation	Approval	Approval	

NCR:		WORK ORDER NON-CONFORMANCE (NCR)								
		Description of NC		Corrective Action Section B		Verification	Anneous			
DATE	STEP	Section A	InitialAction DescriptionSign &Chief EngChief EngDate		Section C	Approval Chief Eng	Approval QC Inspector			

		· `,								

Tuesday, August 31, 2010 10:43:41 AM

Work Order ID: 61665

Parent Item:

D3391-023

Parent Item Name: Mid Tube Assembly



Start Date: 8/31/2010

Required Date: 9/7/2010

Required Qty: 1.00

Start Qty: 1.00

Manufactured

210

39.0000 Each

2

Bushing

D3591-1

Purchased No

No

Location Loc Qty ST072 39 2 47121 57350 37 230 Each

3,094.000

Loc Code

22

22

Insert

ALS4-1032-130

Location	Loc Oty	<u>1</u>
PKG11	2902	
114723	2902	
ST282	153	
110511	10	
114407	143	
ST381	39	
114654	39	

Loc Code

Dail Ac	ospace Eta							•
W/O:			WORK ORDER	CHANGES				
DATE	STEP	PR	OCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC inspector
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Resolution:		on:	Disposition:	QA: N/C		Date:		
NCB.			WORK ORDER NON-CON	IFORMANCE (N	CR)			

NCR:			WORK ORDER NON-CONFORMANCE (NCR)									
		Description of NC		Corrective Action Section B		Verification	A	Approval				
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	QC Inspecto				
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	5											

DART AEROSPACE LTD	Work Order:	41445.
Description: Float Skidtube (412)	Part Number:	D3391-3
Inspection Dwg: D3391 Rev: H		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

|--|

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
		La	the Section	1		
14.000	+/-0.010					
3.500	+/-0.010					
88.93	+/-0.030					
44.995	+/-0.030					
Ø3.200	+/-0.010					
88.93	+/-0.030					
Ø3.750	+/-0.010					
30° x 160" chamfer	+/-0.010					

Measured by:	Date:
Audited by:	Date:

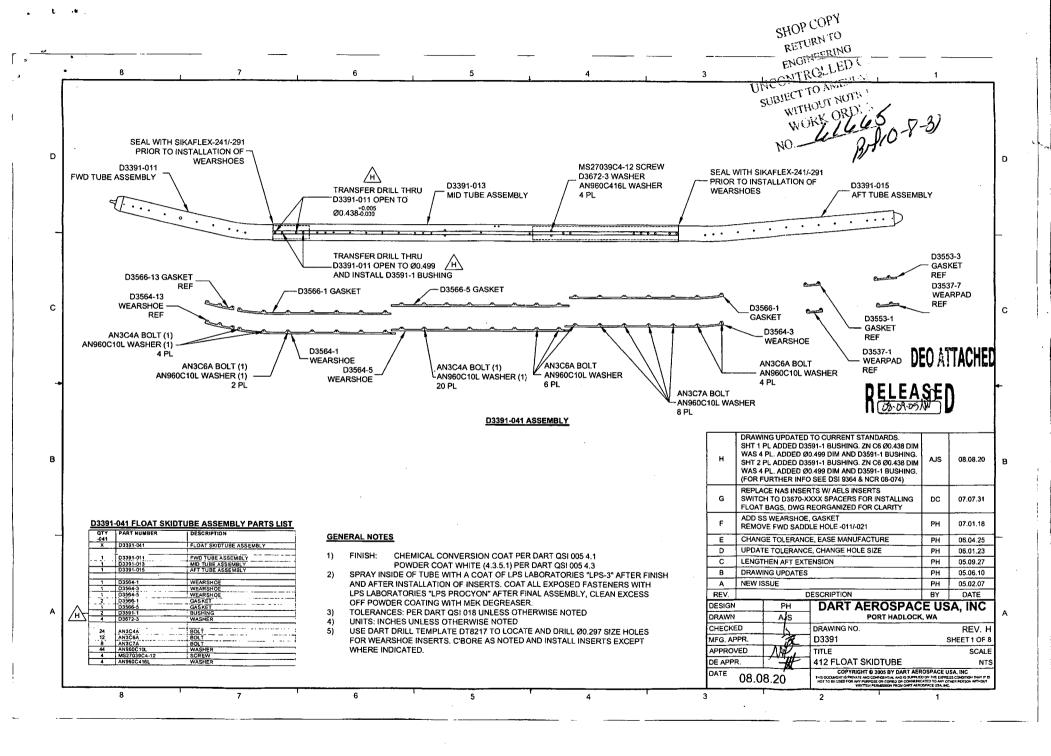
		1	HAAS Sect	ion		
1.526	+0.000/-0.030					
7.500	+/-0.010					
27.750	+/-0.010					
31.750	+/-0.010					
35.250	+/-0.010					
3.300	+/-0.010					
0.200	+/-0.010					
3.520	+/-0.010					
0.687	+0.010/-0.000					
R0.062	+/-0.010					
Ø0.484	+0.005/-0.001					•

Measured by:	Date:
Audited by:	Date:

Date	Change	Revised by	Approved
06.04.24	New Issue P/O D3391-015/-025	KJ/JLM	
	Dwg revision update	KJ/JLM	
07.04.20		KJ/JLM	
07.09.06		KJ/JLM	
07.11.23		KJ/EC/DD	
09.04.27	Dimensions updated per Rev H and NCR09-028	KJ/JLM , L	
09.11.16		KJ KJ	AA
	06.04.24 06.06.19 07.04.20 07.09.06 07.11.23	06.04.24 New Issue P/O D3391-015/-025 06.06.19 Dwg revision update 07.04.20 Ø0.208 dimension removed 07.09.06 0.400 dimension removed 07.11.23 Dwg Rev. updated 09.04.27 Dimensions updated per Rev H and NCR09-028	06.04.24 New Issue P/O D3391-015/-025 KJ/JLM 06.06.19 Dwg revision update KJ/JLM 07.04.20 Ø0.208 dimension removed KJ/JLM 07.09.06 0.400 dimension removed KJ/JLM 07.11.23 Dwg Rev. updated KJ/EC/DD 09.04.27 Dimensions updated per Rev H and NCR09-028 KJ/JLM

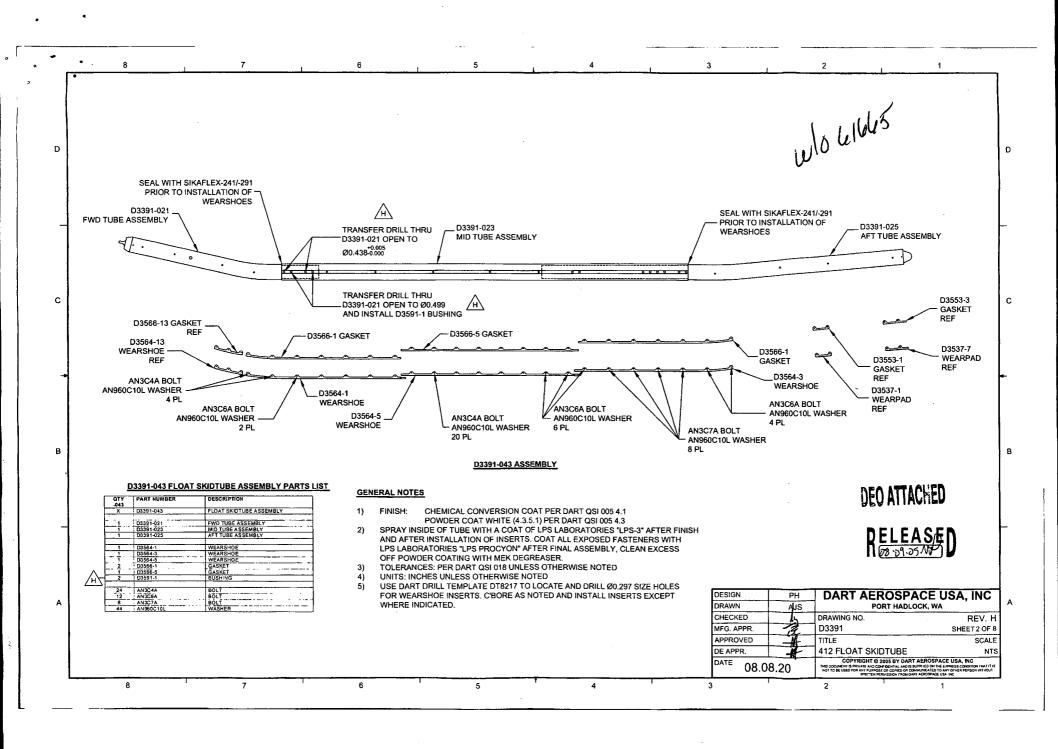
W/O:			W	ORK ORDER CHANG	ES						
DATE	STEP	PRO	CEDURE CH	ANGE	Approval Chief Eng / Prod Mgr	Approval QC Inspector					
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Part No	:	PAR #:	Fault Cat	egory:	_ NCR: Yes	No DQA: _	Date: _				
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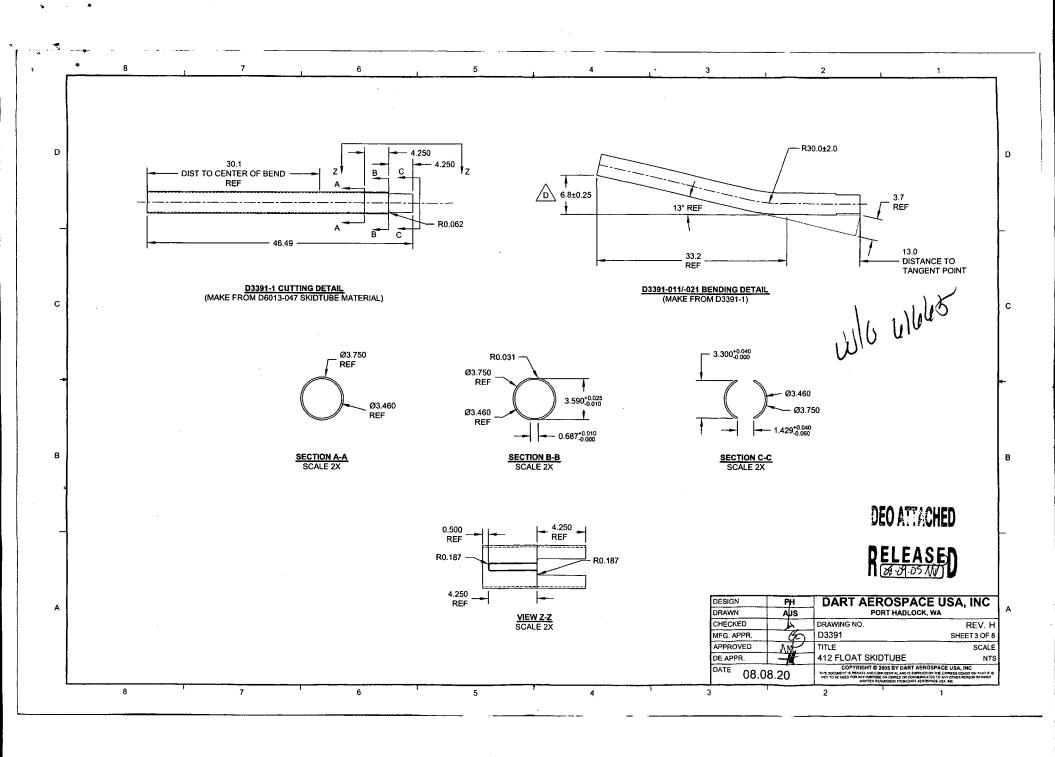
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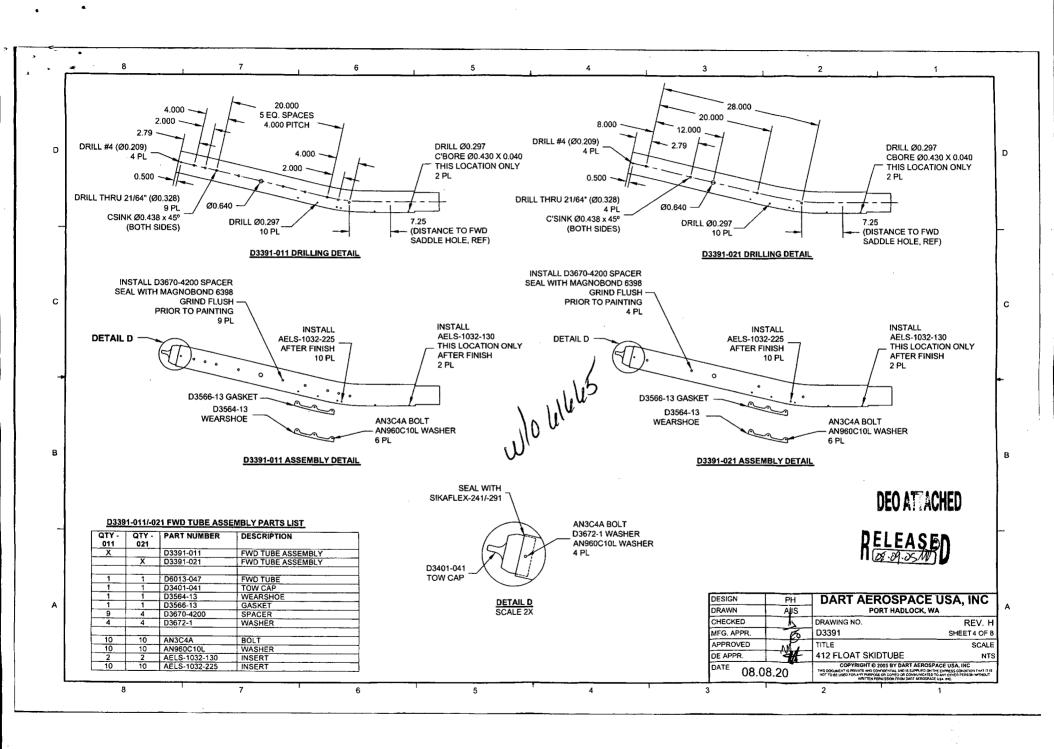
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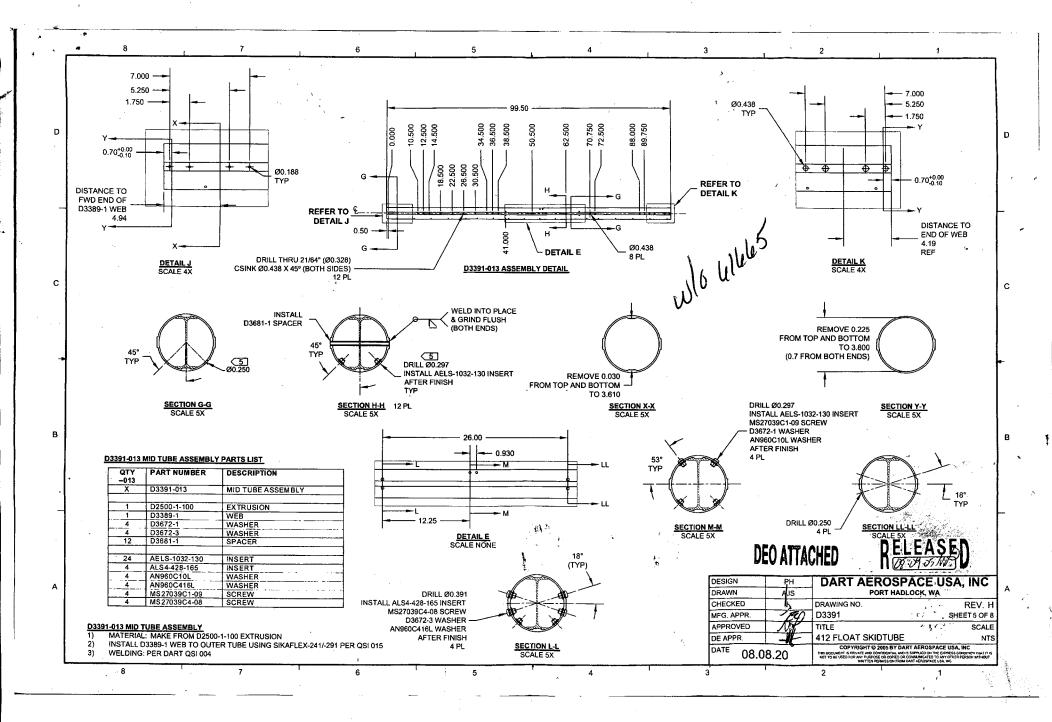
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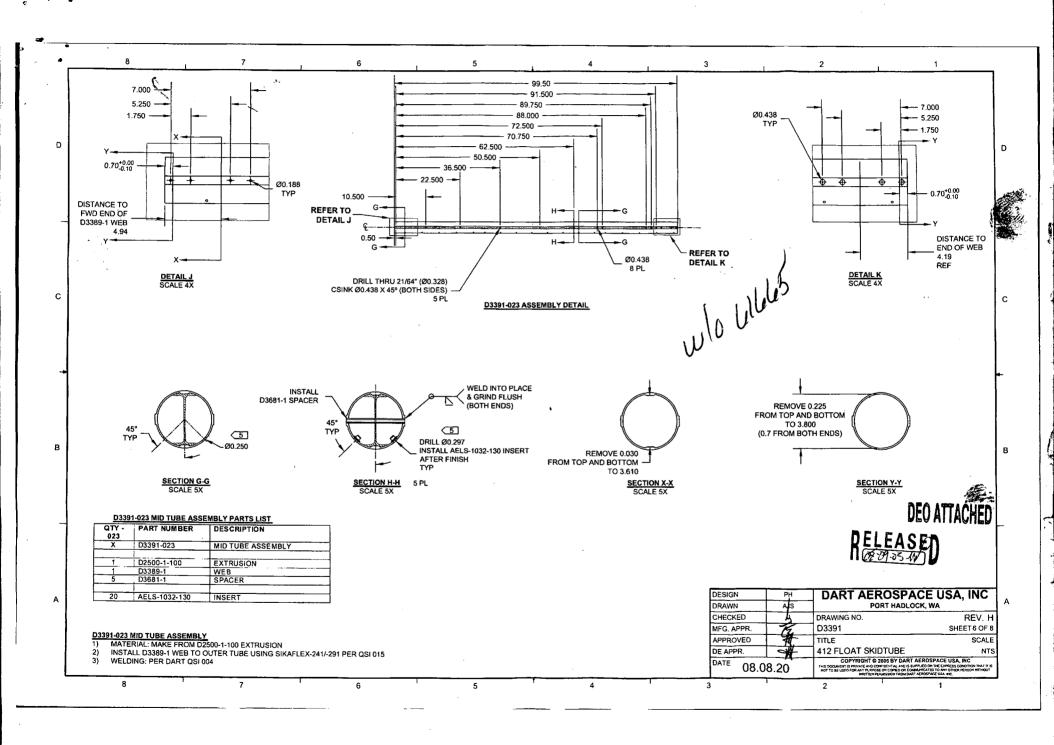
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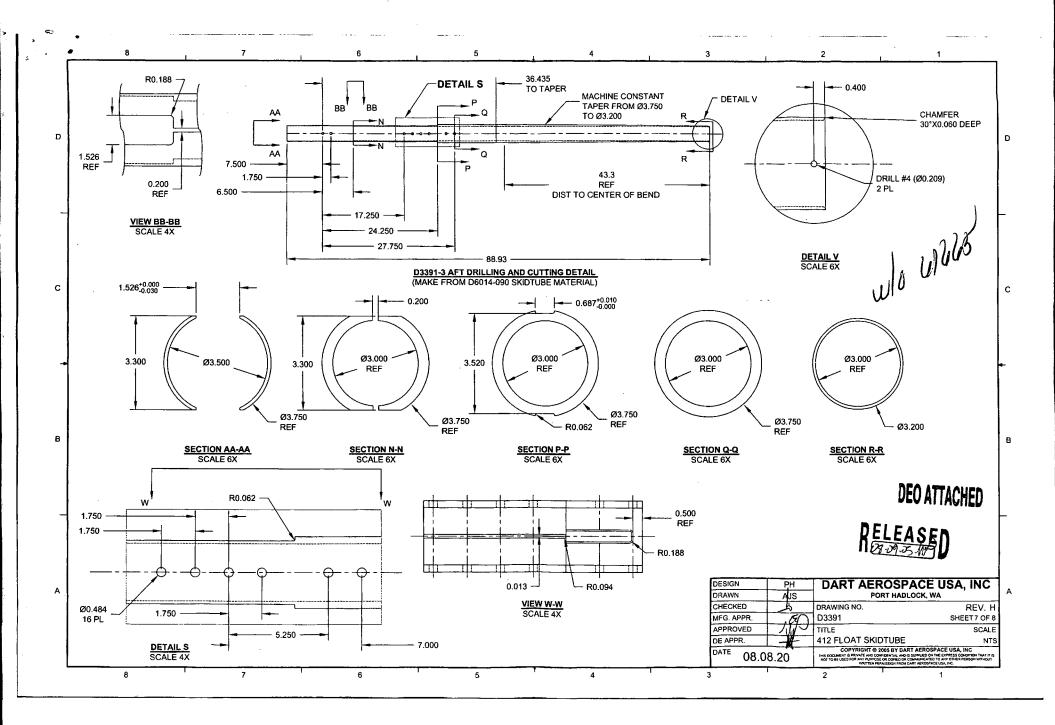
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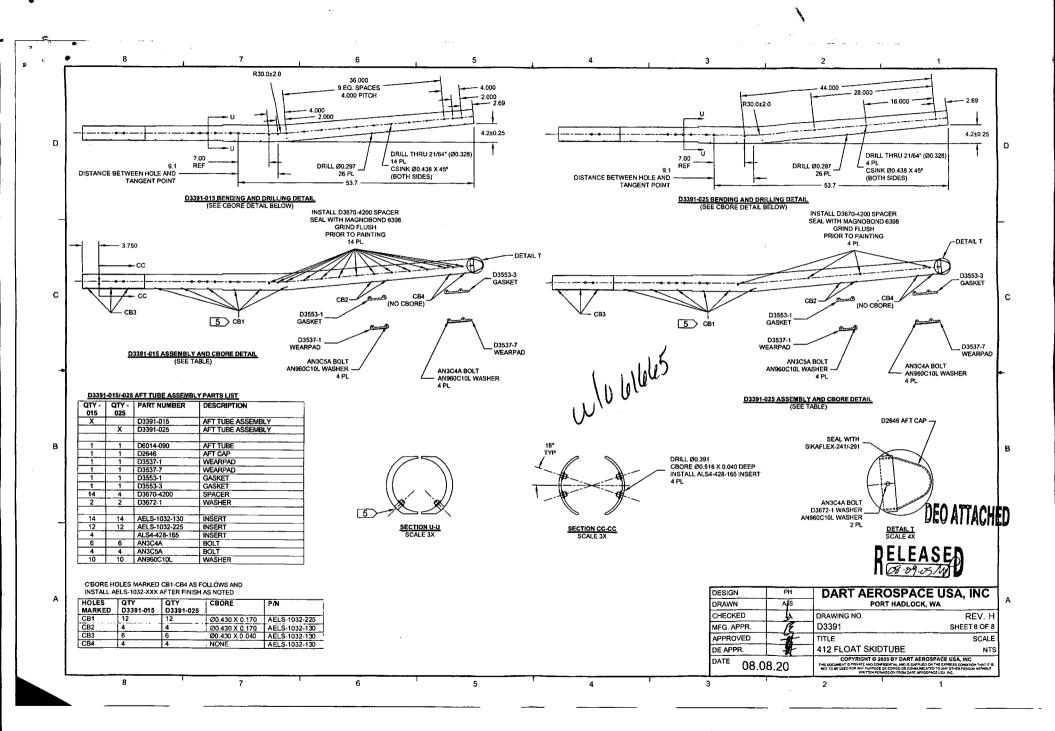
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DRAWING	NO.	TITLE		REV. H	DART AEROS	PACE USA, IN	IC D.E.O. NO.		SHEE	T NO.	SCALE
D3391		412 FLOAT	SKIDTUBE		ENGINEER	RING ORDER	D3391-H-1		SHEET	1 OF,1	NTS
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PURPOSE:

LPS-3 IS NO LONGER USED DURING ASSEMBLY OF D3391-041/-043 SKIDTUBES.

CHANGE:

AMEND NOTE 2 OF D3391-041/-043 SKIDTUBE ASSEMBLIES (ZN A6-1, A6-2) AS FOLLOWS:

2) SPRAY INSIDE OF TUBE WITH A COAT OF LPS LABORATORIES "LPS-3" AFTER FINISH
AND AFTER INSTALLATION OF INSERTS. COAT ALL EXPOSED FASTENERS WITH
LPS LABORATORIES "LPS PROCYON" AFTER FINAL ASSEMBLY, CLEAN EXCESS
OFF POWDER COATING WITH MEK DEGREASER.



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AWS D17.1.2001 QUALIFICATION TEST RECORD

Name: bordey FILEAT	
Job number: BSBB4	
Part number: 53391-013	
Description: mid tubf	
Welding Process: Tig Mig 1	
Base materiel: Aluminia	
Current: AC[DC[]	

TEST REQUIREMENTS AND RESULTS

Visual: Penetration:	pass[] fail[] pass[] fail[]
<u>UNACCEPTABLE</u>	
Cracks: Undercut: Pin holes: Overlap (cold lap) Porosity (surface): Coloration:	pass[] fail[] pass[] fail[] pass[] fail[] pass[] fail[] pass[] fail[] pass[] fail[]
Qualifier Soll). Welder Brilay Michael	Date of Test Coupon 10.04.13 Date of Test Coupon 10.04.13

The above named individual is qualified in accordance with AWS D17.1.2001 to weld